

ACOUSTICAL SOCIETY OF AMERICA
172nd Meeting
5th Joint meeting with Acoustical Society of Japan
Honolulu, HI
TC Noise Meeting Agenda
Wed, Nov 30 2016, 7:30 p.m.
William J. Murphy, Chair

1. Welcome to members, guests, students

- Please mark attendance list and verify your contact information

2. Minutes from Salt Lake City: corrections, approval

- No comments from members

3. Incoming Appointments

4. Reports

Membership Report (Alex Case):

New Fellow introduced at this meeting:

G Clifford Carter, Francesco di Scalea, Truls Gjestland, Nathan McDannold, Robert McGough, Jennifer Miksis-Olds, Joseph Sisneros, James Tencate, Blake Wilson

- a) Medals & Awards (Ken Cunefare): If any suggestions for possible nominations (Gold Medal, Silver Medal, Lindsay Award), let Ken know.
Kirill Horoshenkov attended M&A this week.
- b) Winker Foundation Scholarship in Architectural Acoustics Noise Control and Engineering Acoustics
- a. Committee: Christopher Struck, WJ Murphy, E Rueter, K Walsh
 - b. Announcement is forthcoming Materials will be available on ASA website
 - c. \$3000 scholarship for a student in Architectural Acoustics, Noise and Eng Acoust
- c) Leo & Gabriella Beranek Scholarship in Architectural Acoustics and Noise Control
1. Committee: Gabriella Beranek, Ken Goode Jr., William J Murphy, Tony Hoover, Damian Doria
 - Eric Reuter will be the AA chair forthcoming
 - 7 applicants last year
 - First awardee was Andrew Hulva from Virginia Tech
 2. Announcement will be forthcoming from ASA
 3. Application, recommendation forms and eligibility criteria have been developed
- d) Young Investigators ():

- a. Awardees from Salt Lake
 1. Christopher Jasinski 5aNS7
 2. Matther Calton 5aNS4
 3. Pranav Pamidigantham 1pNS7

- b. Student participants: Honolulu – Judges Thank you!!!

1aNS5	Inman Jang
1pNSa1	Fu Lin
1pNSa2	Wenzhe Deng
1pNSa4	Pedro Henrique Lima
1pNSb1	Daiki Eto
2aNS9	Anna Josefine Sørensen
2pNS11	Ryouzi Saitou
2pNS13	Suguru Hosono
2pNS2	Linh Nguyen
2pNS9	Maurice Hayward
4aNS11	Shodai Sagara
4aNS9	Ryota Matsumoto
4pNSb7	Carl Hart
5pNSa5	Matthew Blevins
5pNSa6	Anna Romanova
5pNSa7	Jacob Bean
5pNSa8	Shuya Ogino
5pNSb2	Mariko Hamamura

- e) Student Council (Jon Weber): Welcome students

- a. Students Meet Members for Lunch

- i. Sign-up form passed around for interested full members to be considered for future meetings – 3 new signatures to be added to directory (will be done by Student Council)
 1. Bonnie Schnitta
 2. Scott Sommerfeldt
 3. David Manley

- b. Website (asastudentcouncil.org), Facebook, Twitter, & LinkedIn

- i. TC members, send post-doc, job, event information to Jon Weber, Chris Jasinski, or student council email (on website) to be posted on student council page

- c. Student events in Honolulu

- i. 525 students registered
- ii. New Student Orientation, Student Meet & Greet, Student Outing (Beach party), student reception
 1. 89, 140 +/- 10, 40-50, 182+ attendance for above events
 2. \$250 travel grants awarded to student in each TC to attend Honolulu meeting (151 total applications)

- d. Student Events in Boston
 - i. Graduate Programs in Acoustics Poster Session
 - 1. Universities (students & faculty members) – abstracts due Jan. 9, 2017
 - 2. Advertise graduate programs, degrees, and opportunities to help undergrads know what's available
 - ii. NEW – Teaching Tips for the New (or not so new) Acoustics Faculty Member (co-sponsored w/ EdComm)
- e. Student travel subsidies available – see website

- f) Education Committee (Traci Neilson, Bill Murphy)
 - a. No updates

- g) This meeting:
 - TPOM representatives: James Phillips, Bill Murphy
 - Electronic organization up and running

 - Session Chairs and Co-Chairs

- a) Call for Papers for Boston will be forthcoming:
 - TPOM: James Phillips Bill Murphy (Would like another volunteer to learn the system)
 - Volunteer to be decided
 - Dates may be set for Feb 16th as of now?

Women in Acoustics (Erica Ryherd)

WIA continues to be active & sponsor several on-going programs, including:

- Young Investigator Travel Award
- Women in Acoustics Luncheon
- Mentoring Program
- Girl Scout Outreach

If you are interested in participating or volunteering for any of these programs, please visit our website (accessible from main ASA page) or contact Erica Ryherd

- Will be starting a blog, awardee will be rewarded a ticket to the luncheon
- Trying to find sponsors for the luncheon
- Girl Scout Outreach will be back in Boston

Regional Chapters (Bob Coffeen)

- Not much new

- No new regional chapters for this meeting, but looking to promote more outreach with future regional meetings
 - Can be academic or application

College of Fellows (Tony Hoover) – Take a Student to the Society Luncheon. Need a volunteer of someone who expects to be going to Society Lunch in Boston. Volunteer when you register for the meeting and sign up for the luncheon.

- Volunteer to be decided

Other Committees?

- None

5. Publications and Standards

JASA Associate Editors for Noise (G. Brambilla, B. S. Cazzolato, S. Fidell, K. V. Horoshenkov, R. Kirby, Brigitte Schulte-Fortkamp)
JASA Express Letters Associate Editor for Noise (??)

- Eddie Lau is new Associate Editor

POMA (Kent Gee) – Associate Editors: Alan Wall, Alexandra Lobeau
Standards (Paul Schomer)

ASACOS (Rich Peppin - report)

Reminder: each ASA member can get 5 free standards a year. Code was sent to you upon membership renewal. If you forgot code go to ASA web and contact “citation help.” ASA/ANSI standards are free, and nationally adopted ISO standards can be purchased for the reduced price of \$35 each.

REPORT FROM ASA Committee on Standards (ASACOS)

Working group for measurement of drone noise

Standards Terminology

ANSI S1.1 and S3.20. There is a new ANSI Standards Terminology database available on the standards site.

New members can get a free copy of S1.1 by using the code “**TERM**” for the ASA Store

In the past 5 years 349 copies of S1.1 and S3.20 have been given away.

S12.60 Parts 1 & 2 Classroom Acoustics

TRANE Corp will no longer be able to sponsor this initiative

TRANE and Armstrong cover the cost of this standard.

Need to identify another co-sponsor about \$5000/year

IEEE WG P.260.4 - Standard Letter Symbols and Abbreviations for Quantities Used in Acoustics. 8 ASA persons are now on this working group.

International Standards meetings

IEC TC 29 – Electroacoustics 27-31 MAR 2017 – Milano Italy

ISO TC 43 – Acoustics 15-19 May 2017 Copenhagen

ISO TC 108 – Vibroacoustics Gaithersburg MD

- Date TBD

History Project for Standards – Need people to assist with putting the history down on paper. It will help guide upcoming standards directors and managers.

- Henry Bulgary was the first who had the Title
- Chris Struck is the standards director

Other ASA Standards in 2017

Job descriptions

International standards meeting in the US 2020 for TC 43 and TC 43/SC1

Case studies and success stories of standards in action

Investigating ways to provide a discount to sustaining members

Improving the standards display for ASA Meetings

There will be a Standards session in New Orleans

ASA Standards: Practical Applications of Acoustics in your Field

3-Point Marketing Message

Support ASA Standards: Become an Organizational Member

Have an Impact and make your voice heard

- You have a vote and can make a difference

Participate in the Standards Process: Volunteer to Join a Working group

Sales of Standards support the ASA Standards Program

Standards are Practical applications of acoustics in your field

Every ASA member gets 5 free standards per year!

S1 New working group on Materials for transduction

Contact Roger Landos

S3 SC1 New working group on Acoustic Meta Data

Reestablish the working group for fish and reptiles

6. Current meeting

Community response to transportation noises	YANO, Takashi	ASJ Noise and Vibration
Prediction of transportation noises	SAKAMOTO, Shinichi	
Low frequency Noise: measurement, evaluation	TAKAHASHI, Yukio, MACHIDA, Nobuo	
Wind turbine Noise	IMAIZUMI, Hiroyuk	
Sound design	TOI, Takeshi	
Emerging issues on quiet vehicles	YAMAUCHI, Katsuya	
Hearing Protection Device Testing Methodologies	Elliot Berger, Jinro Inoue	ASA Noise
Sonic Booms – Joint with Physical Acoustics	Vic Sparrow	
Design of Acoustic Materials	Stuart Bolton, Takashi Yamamoto	
Innovations in Floor Impact Noise Testing	David Lubman, John LoVerde	
Noise Impact on Outdoor Gathering Spaces	Tony Hoover	
Microperforated Materials	Stuart Bolton, Zenzo Yamaguchi	

Fluid flow induced vibration and noise	Kuangcheng Wu Robert Koch	ASA Structural Acoustics and Vibration
Non-contact vibration excitation and sensing techniques	S. Sommerfeldt B. Anderson	
Metamaterials	Jeff Cipolla Christina Naify Michael Haberman	
Building vibration analysis, measurement and mitigation	James Phillips Hasson Tavossi	
Session in honor of Allan Pierce	Sean Wu	

7. Future Meetings

a. Spring 2017, Boston, MA (joint with EAA) June 25, 2017

A Comparative Look at US and European Noise Policies	A comparative look at noise policy and enforcement, social expectations, and the future of noise policy on both sides of the pond	David Woolworth
Effects of Noise on Human Comfort and Performance	Understanding the short- and long-term impact of noise on human comfort and performance in the built environment	Lily Wang
E-Mobility--Challenge for the Acoustics	Electrical vehicles are quieter than conventional vehicles but not without any noise. This is the challenge for the acoustical engineer with respect to the interior and exterior sound. How to get an acoustical feedback? Is it necessary to create artificial signals? Are new analysis tools like tonality and other psycho-acoustical parameters?	Klaus Genuit Steve Sorenson
Implications of Community Tolerance Level Analysis for Prediction of Community Reaction to Environmental Noise	The 2016 update of Part 1 of ISO's 1996 standard describes a method for predicting the prevalence of a consequential degree of noise-induced annoyance in communities that may lead to a paradigm-shifting shift in rationale for transportation noise regulation	Sanford Fidell
Measuring, Modeling, and Managing Transportation Noise	Transportation noise is a public health concern and without substantial mitigation efforts will grow more severe as urbanization increases. This session investigates road, rail, and aircraft noise through numerical calculations, measurements, and simulations to improve noise management and overall soundscape quality	Matthew Kamrath

Mechanical System Noise	Mechanical systems are the major sources of noise inside modern buildings, and a contributor to environmental noise. Their control has long been a challenge to researchers, engineers and practitioners. This session will update the situations, mitigation methods and their effectiveness and their assessment criteria.	Eric Reuter Shiu-Keung Tang
Noise Impacts and Soundscapes on Outdoor Gathering Spaces	Noise creates problems for outdoor gathering spaces. This session will be about those noise impacts, how they are measured, how they are evaluated, and how they might be resolved	Brigitte Schulte-Fortkamp K. Anthony Hoover
Perception of Tonal Noise	The primary goal of this technical session is to disseminate state-of-art research findings of tonality perception of environmental noise. Any tone-related psychoacoustic or noise studies like tone quantification methods and the effects of tones on sound quality will be covered	Joonhee Lee Roland Sottek
Session in Honor of Kenneth Plotkin	Session honoring the life and technical contributions of Kenneth J. Plotkin, primarily in the areas of sonic boom, aircraft noise and outdoor sound propagation	Victor W. Sparrow
Sonic Boom	Propagation of sonic booms through the atmosphere, structural transmission of sonic boom noise into buildings, and human response to sonic boom. Experimental and certification measurements, numerical modeling, and sonic boom signature, reproduction, and acceptability studies.	Victor W. Sparrow
Statistical Learning and Data Science Techniques in Acoustics Research	This session will examine the application of statistical learning and data science techniques to process large datasets commonly encountered in noise and signal processing research	Jonathan Rathsam Edward T. Nykaza
Using Acoustic Standards in Education	Acoustic standards are used to educate audiologists, industrial hygienists, and engineers in mechanical, underwater and bioacoustics. The focus will be on how standards can be incorporated into curriculums for undergraduate and graduate education	William J. Murphy Lawrence Feth
Wind Turbine Noise	Wind turbine noise is one of inevitable problem for clean energy policy. The essential issues, such as characteristics of noise itself and the effective evaluation method would be a candidates for discussion	Nancy Timmerman Paul Schomer Kenneth Kaliski Robert Hellweg
Microperforated Materials	Joint with EA	Mats Abom

a) Fall 2017, New Orleans, Louisiana, Dec.8, 2017

1. Urban Planning Using Soundscapes – David Woolworth & Brigitte Schulte Fortkamp
 2. Acoustics and its role in accessibility (e.g. Americans with Disabilities Act) – Kathy M from the Web Salt Lake City
 - a. Proposed to be joint with AA
 - b. Chair still to be set (David Manley)
 3. Wind Turbine Noise - Nancy Timmerman & Paul Schomer
 4. History of Standards in Noise – Joint with ASACOS, Christopher Struck
 5. Hospital acoustics – Jay Bliefnick & Jon Weber
 - a. Form to be submitted by Friday to TC
 6. Pedestrian warning systems for hybrid and electric vehicles – Aaron Hastings Volpe Center
- b) Spring 2018, Minneapolis, Minnesota, May 7, 2018
 - a. Hearing protection: Impulse peak insertion loss and specialized HPDs – Elliott Berger & Cameron Fackler
 - b. Natural & Recreation Area noise – David Braslau
 - c) Fall 2018, Victoria, British Columbia
 - a. Wind Turbine Noise – David Michaud & Paul Schomer
 - d) Spring 2019, Louisville, Kentucky
 - e) Fall 2019, Not yet determined
 - f) Spring 2020 Chicago IL
 - g) Fall 2020, Cancun, Mexico

7. Technical Council Items (William Murphy)

2019 being proposed as International Year of Sound

- Should be an answer next (2017) after going through UNESCO – will let know what's this goes through to initiate outreach
- David Lubman – Can Noise TC contact Anti-Noise organizations?
 - Looking into presenting work & progress in classroom acoustics, soundscapes, health concerns, etc.

Whit Au is AE for Invited/Review/Tutorial articles for JASA. Give any suggestions you may have for papers in these areas to Bill Murphy or to Whit.

8. TC Noise Web Page (Cameron Fackler)

Website has been migrated to ASA site by Dan Farrell. If people have suggestions, we can work with Dan to get them incorporated.

- Decisions to be made on organization, i.e. subcommittees
- Subcommittee for Web content:
 - Brigitte Schulte-Fortkamp, Matt Blevins, Christopher Buckley, Patricia Davies, Bonnie Schnitta (& Les Blomberg?) to be in contact via email prior to Boston meeting

9. Technical initiatives

New guidelines – standing approved funding of \$1000 for Young Investigator Award and \$3000 for travel support each year

- Let William Murphy know

For additional initiatives, initiative under \$2500 will be approved by a “consent” vote (up to \$15,000 total). Those over \$2500 will be considered and approved individually.

- Find information on standards webpage and submit

- **ITEMS approved at TC for technical Initiatives**

1. Participation in Acoustics in Underwater Geosciences Symposium Rio July 25-27 2017
2. Winter School on Therapeutic Ultrasound
3. Funding a session for budding scientists with invited talks by students and postdocs at Acoustics '17 in Boston
4. Concerts at New Orleans

10. Other Items

- a) Eric Reuter – ASHRAE 189.1, Standards for the Design of High-Performance Green Buildings up for review
 - There is a link in the TCAA agenda on the TCAA website
 - Eric to look into a potential cost to view the standard?
- b) Lily Wang (remote participant) – Thank you to @NIOSHNoise for hosting chat on hearing loss prevention

11. Next Meeting: Boston, MA (joint with EAA) June 25, 2017

- Brigitte Schulte-Fortkamp – joint meeting with ASA & EAA TCs
- Tony Embleton – First standards work in the society 1930 (society 1 year old), debate about sound pressure or intensity being the reference
 - Things fairly quiet until 1946 (WWI), Leo Beranek was real champion of standards
 - First sessions, 100-200 people came to the first sessions on standards
 - Standards Advisor to the Executive council and all decisions were made by the EC. Larry Batcholder was doing the work
 - Then Henning von Gierke, Ken Eldred, Tony Embleton, Dan Johnson, Paul Schomer and now Chris Struck

Adjourn